

Abstract:

MCC as a Characterization Tool for Fire Resistant Adhesives

Dr. Eumi Pyun & Dr. Patrick G. Zimmerman

3M Company St. Paul Minnesota

The Use of Micro combustion Calorimetry (MCC) in the characterization of the Fire Resistance of materials is well known. 3M has been practicing this method for over 10 years to characterize materials for Fire Resistant applications in the electrical/electronic and building materials market. Recently in support of a Fire testing Working group Forum subcommittee, work was initiated to compare MCC results with 14 CFR 25.853 (a) on materials that both pass and fail the 12 second vertical burn. The comparative results will be presented.